

## CATALYST FOR TRIMERIZING ETHYLENE AND TRIMERIZATION OF ETHYLENE IN PRESENCE OF THE SAME

**Patent number:** JP11092408  
**Publication date:** 1999-04-06  
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**Classification:**  
**- international:** C07C11/113; B01J31/20; C07B61/00; C07C2/08;  
C07C2/26  
**- european:**  
**Application number:** JP19970255370 19970919  
**Priority number(s):**

### Abstract of JP11092408

**PROBLEM TO BE SOLVED:** To obtain the subject catalyst for efficiently and highly selectively producing 1-hexene useful as a raw material comonomer for linear low density polyethylene from ethylene by including a chromium compound, an alkyl metal compound and a specific electron donor.

**SOLUTION:** This catalyst comprises a neutral ligand or anionic sulfur ligand- containing chromium compound of the formula:  $\text{CrAm} [(m) \text{ is an integer of } 1-6; A \text{ is carbon monoxide or the like}), \text{ an alkyl compound of the formula: } \text{Rp MXq} [0 < (p) \leq 3, 0 \leq (q) < 3, (p) + (q) \text{ is } 1 \text{ to } 3; M \text{ is lithium or the like; R is a } 1-10\text{C alkyl; X is H or the like}), \text{ and one or more kinds of electron donors selected from ether compounds, ester compounds, imine compounds, isonitrile compounds, phosphine compounds, phosphine oxide compounds and phosphite compounds, and, if necessary, an aluminoxane having a hydrolysis ratio of } \leq 0.7.$

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